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1   IS '97: model curriculum and guidelines for undergraduate degree programs in
information systems   ■
Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E.
Longenecker
December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs
on Model curriculum and guidelines for undergraduate degree
programs in information systems**, Volume 28 Issue 1
Full text available: 📄 pdf(7.24 MB)   Additional Information: full citation, citings

2   The state of the art in automating usability evaluation of user interfaces   ■
Melody Y. Ivory, Marti A Hearst
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Full text available: 📄 pdf(2.31 MB)   · Additional Information: full citation, abstract, references, citings, index
terms, review

Usability evaluation is an increasingly important part of the user interface design process.
However, usability evaluation can be expensive in terms of time and human resources, and
automation is therefore a promising way to augment existing approaches. This article
presents an extensive survey of usability evaluation methods, organized according to a new
taxonomy that emphasizes the role of automation. The survey analyzes existing techniques,
identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web
interfaces

3   Fast detection of communication patterns in distributed executions   ■
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies
on Collaborative research**
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on
process-time diagrams are often used to obtain a better understanding of the execution of
the application. The visualization tool we use is Poet, an event tracer developed at the

University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 <u>Pen computing: a technology overview and a vision</u>

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: <u>pdf(5.14 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

5 <u>Draft Proposed: American National Standard—Graphical Kernel System</u>

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Full text available: <u>pdf(16.07 MB)</u>   Additional Information: <u>full citation</u>

6 <u>Illustrative risks to the public in the use of computer systems and related technology</u>

Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Full text available: <u>pdf(2.54 MB)</u>   Additional Information: <u>full citation</u>

7 <u>DOLPHIN: integrated meeting support across local and remote desktop environments</u> <u>and LiveBoards</u>

Norbert A. Streitz, Jörg Geißler, Jörg M. Haake, Jeroen Hol

October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative work**

Full text available: <u>pdf(2.13 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper describes DOLPHIN, a fully group aware application designed to provide computer support for different types of meetings: face-to-face meetings with a large interactive electronic whiteboard with or without networked computers provided for the participants, extensions of these meetings with remote participants at their desktop computers connected via computer and audio/video networks, and/or participants in a second meeting room also provided with an electronic whiteboard as well ...

Keywords: brainstorming, collaborative writing/drawing, document-based cooperation, electronic meeting rooms, hypermedia, interactive whiteboards, pen-based interaction, planning, shared workspaces

8 <u>Tools: Automated tools to implement and test Internet systems in reconfigurable</u> <u>hardware</u>

John W. Lockwood, Chris Neely, Chris Zuver, Dave Lim

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Full text available: <u>pdf(1.01 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Tools have been developed to automatically integrate and test networking systems in reconfigurable hardware. These tools dynamically generate circuits for Field Programmable Gate Arrays (FPGAs). A library of hardware-accelerated modules has been developed that processes Internet Protocol (IP) packets, performs header rule matching, scans pocket payloads, and implements per-flow queueing. Other functions can be added to the library as extensible modules.An integration tool was developed to enable ...

Keywords: Field Programmable Gate Array (FPGA), Internet, firewall, network intrusion detection and prevention, networks, reconfigurable hardware, tools

9 Puzzles and users: A PIN-entry method resilient against shoulder surfing
Volker Roth, Kai Richter, Rene Freidinger
October 2004 **Proceedings of the 11th ACM conference on Computer and communications security**
Full text available: pdf(301.35 KB)   Additional Information: full citation, abstract, references, index terms

Magnetic stripe cards are in common use for electronic payments and cash withdrawal. Reported incidents document that criminals easily pickpocket cards or skim them by swiping them through additional card readers. Personal identification numbers (PINs) are obtained by shoulder surfing, through the use of mirrors or concealed miniature cameras. Both elements, the PIN and the card, are generally sufficient to give the criminal full access to the victim's account. In this paper, we present alter ...

Keywords: ATM, PIN, cognitive trapdoor games, password, shoulder surfing

10 Task force report and recommendations
January 2000 **ACM SIGMIS Database**, Volume 31 Issue 1
Full text available: pdf(4.42 MB)   Additional Information: full citation, index terms

11 Interactive Posters: Layered touch panel: the input device with two touch panel layers
Yujin Tsukada, Takeshi Hoshino
April 2002 **CHI '02 extended abstracts on Human factors in computing systems**
Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings

We developed Layered Touch Panel that expands the interaction techniques of touch panel. Layer Touch Panel has two touch panel layers, so that it is able to distinguish two touch states such as "finger on screen" and "finger above screen". With the structure, Rollover effect and Pick & Drop that are not available in normal touch panel are available in Layered Touch Panel.As the result of a usability test, 88% of test users answered that Layered Touch Panel is more usable than normal touch panel. ...

Keywords: input device, pick & drop, rollover effect, touch panel

12 Open-vocabulary speech indexing for voice and video mail retrieval
M. G. Brown, J. T. Foote, G. J. F. Jones, K. Spärck Jones, S. J. Young
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**
Full text available: pdf(1.82 MB)   Additional Information: full citation, references, citings, index terms

Keywords: audio indexing, browsing, content-based retrieval, information retrieval, speech

recognition, word spotting

13 Informing DUX: Universal model of a user interface

Bob Baxley
June 2003 **Proceedings of the 2003 conference on Designing for user experiences**

Full text available: pdf(211.16 KB)   Additional Information: full citation, abstract, references

This article describes a model of a user interface that can be applied to any interactive medium or product. Building on the established model of structure-behavior-presentation, this model adds levels of granularity and specificity.It also describes the importance and utility of such a model, both in regard to cross-discipline communication and the allocation and prioritization of tasks and resources.The article illustrates the model in practice by applying it to a single, detailed example as w ...

Keywords: conceptual model, design models, design planning, information architecture, interaction design, interface design, process improvement

14 Workshop and conference summaries: Practitioners do good work

L. B. S. Raccoon
March 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 2

Full text available: pdf(808.46 KB)   Additional Information: full citation, abstract, references, citings

I believe that software engineers have done, are doing, and will continue to do good work. Practitioners contribute to the well-being of society and add value to the economy. Working applications enable hundreds of millions of users around the world to productively do things that would otherwise be impossible.I do not claim that software engineers are perfect. Bugs seem to lurk in almost all programs. Reliable schedules and budgets remain elusive. And, software has created whole new slates of pr ...

15 Client-side web scripting

Marco Fioretti
March 2002 **Linux Journal**, Volume 2002 Issue 95

Full text available: html(22.66 KB)   Additional Information: full citation, abstract, index terms

Personalize your web experience with a little Perl.

16 Bayan: an Arabic text database management system

Roger King, Ali Morfeq
May 1990 **ACM SIGMOD Record , Proceedings of the 1990 ACM SIGMOD international conference on Management of data**, Volume 19 Issue 2

Full text available: pdf(1.39 MB)   Additional Information: full citation, abstract, references, index terms

Most existing databases lack features which allow for the convenient manipulation of text. It is even more difficult to use them if the text language is not based on the Roman alphabet. The Arabic language is a very good example of this case. Many projects have attempted to use conventional database systems for Arabic data manipulation (including text data), but because of Arabic's many differences with English, these projects have met with limited success. In the Bayan project, the approac ...

17 Some computer science issues in ubiquitous computing

Mark Weiser
July 1993 **Communications of the ACM**, Volume 36 Issue 7

Full text available: pdf(4.36 MB)   Additional Information: full citation, references, citings, index terms,

review

Keywords: ubiquitous computing

18 <u>Pictorial interfaces: Assisted browsing in a diagnostic image database</u>
A. F. Abate, M. Nappi, G. Tortora, M. Tucci
May 1996 **Proceedings of the workshop on Advanced visual interfaces**
Full text available: <u>pdf(2.66 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

The paper describes a significant part of an experimental system for producing digital medical images, processing them to extract suitable spatial indexes, and to store and retrieve by content such images in order to provide users with an assisted visual browser to navigate a distributed archive. A prerequisite for the system described in this paper is that a physician should be able to manipulate the diagnostic images by simple visual commands that allow content-based access. In particular, the ...

19 <u>Status of standards</u>
A. Lyman Chapin
April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2
Full text available: <u>pdf(1.79 MB)</u>   Additional Information: <u>full citation</u>, <u>index terms</u>

20 <u>Report on the Workshop on Quality of Service Issues in High Speed Networks</u>
S. Keshav
October 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 5
Full text available: <u>pdf(1.28 MB)</u>   Additional Information: <u>full citation</u>, <u>index terms</u>

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